



SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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Certificate #
0972-01

Certificate of Calibration

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: BLUE M ELECTRIC BM71110000011
Description: CHART RECORDER
Serial No: 91E34523
Asset No: 004828
Procedure: CL-738, MAY/03

Work Order: 303065337
Date Issued: Aug 19, 2005
Calibration Date: Aug 19, 2005
***Calibration Due:** Feb 17, 2006
Calibration Location: Bldg. 64
Environment: Temp. 71.0°F Hum. 50 %RH
****Data Type:** FOUND-LEFT

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.


*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

Remarks: CHART NOT CALIBRATED

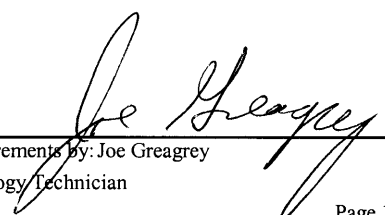
Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
009137	A21208	HART SCIENTIFIC	1575	THERMOMETER	Nov 24, 05
010281	0421	HART SCIENTIFIC	5628	SPRT	Jun 24, 08

Approved by: 
Walt Hill

Manager

m:\a2la1.rpt Rev date March 6, 2005

Measurements by: 
Joe Greagrey
Metrology Technician

Southwest Research Institute
Calibration laboratory
Measurement Report

Work Order:	303065337	Mfr.	BLUE MOUNTAIN	Technician	JRG
Asset No.	004828	Model	BM71110	Cal Date.	19-Aug-05
Serial No.	91E34523	Type.	CHART RECORDER		
Remarks:					
LIMITED CAL - CHART NOT CALIBRATED					

Function/Range	Test Point	TI Reading	Difference	+/-Limits	+/-Uncertainty	Found/Left
	°C	°C	°C	°C	°C	Result
RTD						
Upper						
0 Deg C	0.1	0	0	1	1.2	Pass
10 Deg C	10.1	10	0	1	1.2	Pass
20 Deg C	20.0	20	0	1	1.2	Pass
30 Deg C	30.0	30	0	1	1.2	Pass
40 Deg C	40.0	40	0	1	1.2	Pass
50 Deg C	50.0	50	0	1	1.2	Pass
Lower						
0 Deg C	0.1	0	0	1	1.2	Pass
10 Deg C	10.1	10	0	1	1.2	Pass
20 Deg C	20.0	19	-1	1	1.2	Pass
30 Deg C	30.0	29	-1	1	1.2	Pass
40 Deg C	40.0	39	-1	1	1.2	Pass
50 Deg C	50.0	49	-1	1	1.2	Pass

END OF REPORT